SEQUENCE LISTING

(1) GENERAL INFORMATION:

- (i) APPLICANT:
 - (A) NAME: FORBAIRT (trading as BioResearch Ireland)
 - (B) STREET: Glasnevin
 - (C) CITY: Dublin 9
 - (E) COUNTRY: Ireland
 - (F) POSTAL CODE (ZIP): none
 - (A) NAME: UNIVERSITY COLLEGE CORK
 - (B) STREET: College Road
 - (C) CITY: Cork
 - (E) COUNTRY: Ireland
 - (F) POSTAL CODE (ZIP): none
 - (A) NAME: McCARTHY, Thomas Valentine
 - (B) STREET: Vista Villa, Montenotté
 - (C) CITY: Cork
 - (E) COUNTRY: |Ireland
 - (F) POSTAL CODE (ZIP): noné

 - (A) NAME: VAUGHAN, Patrick Martin
 (B) STREET: 175 West Avenue Parkgate, Frankfield
 - (C) CITY: Cork
 - (E) COUNTRY: Ireland
 - (F) POSTAL CODE (ZIP)
- (ii) TITLE OF INVENTION: A method for the characterisation of nucleic acid molecules involving generation of extendible upstream DNA fragments resulting from the cleavage of nucleic acid at an abasic site
- (iii) NUMBER OF SEQUENCÉS: 32
- (iv) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Floppy disk
 - (B) COMPUTER: IBM PC compatible
 - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)
- (2) INFORMATION/FOR SEQ ID NO: 1:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 93 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(iii) HYPOTHETICAL: NO

(iii) HYPOTHETICAL: NO	
(iv) ANTI-SENSE: NO	
<pre>(vi) ORIGINAL SOURCE: (F) TISSUE TYPE: Skeletal muscle</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:	
TCCAAGGAGA AGCTGGATGT GGCCCCCAAG CGGGATGTGG AGGGCATGGG CCCCCTGAG	60
ATCAAGTACG GGGAGTCACT GTGCTTCGTG CAG	93
(2) INFORMATION FOR SEQ ID NO: 2:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 93 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA generated by PCR amplification"</pre>	
(iii) HYPOTHETICAL: NO	
(iv) ANTI-SENSE: NO	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:	
TCCAAGGAGA AGCTGGATGT GGCCCCCAAG CGGGAUGUGG AGGGCAUGGG CCCCCCUGAG	60
AUCAAGUACG GGGAGUCACU GUGCUUCGUG CAG	93
(2) INFORMATION FOR SEQ ID NO: 3:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 93 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA generated by PCR amplification"</pre>	

(iv) ANTI-SENSE: NO	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:	
CTGCACGAAG CACAGTGACT CCCCGUACUU GAUCUCAGGG GGGCCCAUGC CCUCCACAUC	6
CCGCUUGGGG GCCACAUCCA GCUUCUCCUU GGA	9
(2) INFORMATION FOR SEQ ID NO: 4:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA generated by glycosylase mediated cleavage and has a 3' phosphate group"</pre>	
(iii) HYPOTHETICAL: NO	
(iv) ANTI-SENSE: NO	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:	
CTGCACGAAG CACAGTGACT CCCCG	25
(2) INFORMATION FOR SEQ ID NO: 5:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA generated by glycosylase mediated cleavage and has a 3' hydroxyl group"</pre>	

- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:

CTGCACGAAG CACAGTGACT CCCCG

273

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(2) INFORMATION FOR SEQ ID NO: 6:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 93 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA generated by glycosylase mediated cleavage followed by extension of upstream fragment"</pre>	
(iii) HYPOTHETICAL: NO	
(iv) ANTI-SENSE: NO	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:	
CTGCACGAAG CACAGTGACT CCCCGTACTT GATCTCAGGG GGGCCCATGC CCTCCACATC	60
CCGCTTGGGG GCCACATCCA GCTTCTCCTT GGA	93
(2) INFORMATION FOR SEQ ID NO: 7:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 273 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(iii) HYPOTHETICAL: NO	
(iv) ANTI-SENSE: NO	
<pre>(vi) ORIGINAL SOURCE: (F) TISSUE TYPE: Skeletal muscle</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:	
TCCAAGGAGA AGCTGGATGT GGCCCCCAAG CGGGATGTGG AGGGCATGGG CCCCCCTGAG	60
ATCAAGTACG GGGAGTCACT GTGCTTCGTG CAGCATGTGG CCTCAGGACT GTGGCTCACC	120
TATGCCGCTC CAGACCCCAA GGCCCTGCGG CTCGGCGTGC TCAAGAAGAA GGCCATGCTG	180
CACCAGGAGG GCCACATGGA CGACGCACTG TCGCTGACCC GCTGCCAGCA GGAGGAGTCC	240

CAGGCCGCCC GCATGATCCA CAGCACCAAT GGC

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(4)) INFORMATION	FUR	SEU	TD	NO:	- 8:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 273 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO
- (vi) ORIGINAL SOURCE:
 - (F) TISSUE TYPE: Skeletal muscle
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:

TCCAAGGAGA AGCTGGATGT GGCCCCCAAG CGGGATGTGG AGGGCATGGG CCCCCTGAG 60

ATCAAGTACA GGGAGTCACT GTGCTTCGTG CAGCATGTGG CCTCAGGACT GTGGCTCACC 120

TATGCCGCTC CAGACCCCAA GGCCCTGCGG CTCGGCGTGC TCAAGAAGAA GGCCATGCTG 180

CACCAGGAGG GCCACATGGA CGACGCACTG TCGCTGACCC GCTGCCAGCA GGAGGAGTCC 240

CAGGCCGCCC GCATGATCCA CAGCACCAAT GGC 273

- (2) INFORMATION FOR SEQ ID NO: 9:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 196 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: other nucleic acid
 - (A) DESCRIPTION: /desc = "DNA generated by glycosylase mediated cleavage and upstream fragment extension, and has a 3' hydrogen atom"
 - (iii) HYPOTHETICAL: NO
 - (iv) ANTI-SENSE: NO
 - (ix) FEATURE:
 - (A) NAME/KEY: modified_base
 - (B) LOCATION: 196

(xi) S	EQUENCE DES	CRIPTION: S	EQ ID NO: 9	:		
GCCATTGGTG	CTGTGGATCA	TGCGGGCGGC	CTGGGACTCC	TCCTGCTGGC	AGCGGGTCAG	60
CGACAGTGCG	TCGTCCATGT	GGCCCTCCTG	GTGCAGCATG	GCCTTCTTCT	TGAGCACGCC	120
GAGCCGCAGG	GCCTTGGGGT	CTGGAGCGGC	ATAGGTGAGC	CACAGTCCTG	AGGCCACATG	180
CTGCACGAAG	CACAGT					196

(2) INFORMATION FOR SEQ ID NO: 10:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 200 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
 (A) DESCRIPTION: /desc = "DNA generated by
 glycosylase mediated cleavage followed by upstream fragment
 extension, and has a 3' hydrogen atom"
 - (iii) HYPOTHETICAL: NO
 - (ix) FEATURE:
 - (A) NAME/KEY: modified_base
 - (B) LOCATION:200
 - (D) OTHER INFORMATION:/mod_base= OTHER
 /note= "Dideoxy T"
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:

GCCATTGGTG	CTGTGGATCA	TGCGGGCGGC	CTGGGACTCC	TCCTGCTGGC	AGCGGGTCAG	60
CGACAGTGCG	TCGTCCATGT	GGCCCTCCTG	GTGCAGCATG	GCCTTCTTCT	TGAGCACGCC	120
GAGCCGCAGG	GCCTTGGGGT	CTGGAGCGGC	ATAGGTGAGC	CACAGTCCTG	AGGCCACATG	180
CTGCACGAAG	CACAGTGACT					200

(2) INFORMATION FOR SEQ ID NO: 11:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 204 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid
<pre>(A) DESCRIPTION: /desc = "DNA generated by</pre>
glycosylase mediated cleavage followed by upstream fragment
extension, and has a 3' hydrogen arom"

- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO
- (ix) FEATURE:
 - (A) NAME/KEY: modified_base
 - (B) LOCATION: 204
 - (D) OTHER INFORMATION:/note= "Dideoxy T"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:

GCCATTGGTG CTGTGGATCA	TGCGGGCGGC	CTGGGACTCC	TCCTGCTGGC	AGCGGGTCAG	- 60
CGACAGTGCG TCGTCCATGT (GGCCCTCCTG	GTGCAGCATG	GCCTTCTTCT	TGAGCACGCC	120
GAGCCGCAGG GCCTTGGGGT C	CTGGAGCGGC	ATAGGTGAGC	CACAGTCCTG	AGGCCACATG	180
CTGCACGAAG CACAGTGACT C	CCCT				204

- (2) INFORMATION FOR SEQ ID NO: 12:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 206 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: other nucleic acid
 - (A) DESCRIPTION: /desc = "DNA generated by glycosylase mediated cleavage and followed by upstream fragment extension, and has a 3' hydrogen atom"
 - (iii) HYPOTHETICAL: NO
 - (iv) ANTI-SENSE: NO
 - (ix) FEATURE:
 - (A) NAME/KEY: modified_base
 - (B) LOCATION: 206
 - (D) OTHER INFORMATION:/note= "Dideoxy T"

45

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:	
GCCATTGGTG CTGTGGATCA TGCGGGCGGC CTGGGACTCC TCCTGCTGGC AGCGGGTCAG	60
CGACAGTGCG TCGTCCATGT GGCCCTCCTG GTGCAGCATG GCCTTCTTCT TGAGCACGCC	120
GAGCCGCAGG GCCTTGGGGT CTGGAGCGGC ATAGGTGAGC CACAGTCCTG AGGCCACATG	180
CTGCACGAAG CACAGTGACT CCCCGT	206
<pre>(2) INFORMATION FOR SEQ ID NO: 13: (i) SEQUENCE CHARACTERISTICS:</pre>	
(iv) ANTI-SENSE: NO	
<pre>(ix) FEATURE: (A) NAME/KEY: modified_base (B) LOCATION:209 (D) OTHER INFORMATION:/mod_base= OTHER</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:	
GCCATTGGTG CTGTGGATCA TGCGGGCGGC CTGGGACTCC TCCTGCTGGC AGCGGGTCAG	60
CGACAGTGCG TCGTCCATGT GGCCCTCCTG GTGCAGCATG GCCTTCTTCT TGAGCACGCC	120
GAGCCGCAGG GCCTTGGGGT CTGGAGCGGC ATAGGTGAGC CACAGTCCTG AGGCCACATG	180
CTGCACGAAG CACAGTGACT CCCCGTACT	209

(2) INFORMATION FOR SEQ ID NO: 14:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 204 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid	d
(A) DESCRIPTION: /desc = "DNA (generated by
glycosylase mediated cleavage followed	by upstream fragment
extension, and has a 3' hydrogen atom"	

- (iii) HYPOTHETICAL: NO
- (iv) ANTI-SENSE: NO
- (ix) FEATURE:
 - (A) NAME/KEY: modified_base
 - (B) LOCATION: 204
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:

GCCATTGGTG CTGTGGATCA TGCGGGCGGC CTGGGACTCC TCCTGCTGGC AGC	CGGGTCAG 60
CGACAGTGCG TCGTCCATGT GGCCCTCCTG GTGCAGCATG GCCTTCTTCT TGA	AGCACGCC 120
GAGCCGCAGG GCCTTGGGGT CTGGAGCGGC ATAGGTGAGC CACAGTCCTG AGG	GCCACATG 180
CTGCACGAAG CACAGTGACT CCCC	204

- (2) INFORMATION FOR SEQ ID NO: 15:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 54 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: DNA (genomic)
 - (vi) ORIGINAL SOURCE:
 - (A) ORGANISM: Homo sapiens
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:

AACTTGTGGT AGTTGGAGCT GGTGGCGTAG GCAAGAGTGC CTTGACGATA CAGC

12	1	INFORMATION	FOR	SEO	ID	NO:	16

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 54 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
 (A) DESCRIPTION: /desc = "Generated by PCR

amplification of genomic DNA*

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:

AACTTGTGGT AGTTGGAGCT GGUGGCGUAG GCAAGAGUGC CUUGACGAUA CAGC

54

- (2) INFORMATION FOR SEQ ID NO: 17:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 54 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:

GCTGTATCGT CAAGGCACTC TTGCCTACGC CACCAGCUCC AACUACCACA AGUU

- (2) INFORMATION FOR SEQ ID NO: 18:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 54 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(xi)	SEOUENCE	DESCRIPTION:	SEO	TD	NO ·	1.8

AACTTGTGGT AGTTGGAGCT GAUGGCGUAG GCAAGAGUGC CUUGACGAUA CAGC

54

(2) INFORMATION FOR SEQ ID NO: 19:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 54 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
 (A) DESCRIPTION: /desc = "Generated by PCR
 amplification"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:

GCTGTATCGT CAAGGCACTC TTGCCTACGC CAUCAGCUCC AACUACCACA AGUU

54

- (2) INFORMATION FOR SEQ ID NO: 20:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 37 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:

GCTGTATCGT CAAGGCACTC TTGCCTACGC CACCAGC

- (2) INFORMATION FOR SEQ ID NO: 21:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 32 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

GCTGTAAACG ACGGCCAGTT TCAT

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<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "Generated by glycosylase mediated cleavage of PCR amplified DNA"</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21:	
GCTGTATCGT CAAGGCACTC TTGCCTACGC CA	32
,	
(2) INFORMATION FOR SEQ ID NO: 22:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 66 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "synthetic oligonucleotide"</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 22:	
GCTGTAAACG ACGGCCAGTT TCATGCAGGG CTGGAGTCGT AGGCAAGAGT GCCTTGACGA	60
TACAGC	66
(2) INFORMATION FOR SEQ ID NO: 23:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
<pre>(ii) MOLECULE TYPE: other nucleic acid</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 23:	

(2) INFORMATION FOR SEQ ID NO: 24:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "Generated by primer extension"</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 24:	
GCTGTATCGT CAAGGCACTC TTGCCTACGC CACCAGCCCT GCATGAAACT GGCCGTCGTT	60
TACAGC	66
(2) INFORMATION FOR SEQ ID NO: 25:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "synthetic oligonucleotide"</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 25:	
GCTGTAAACG ACGGCCAGTT TCATGCAGGA TCCATGGCGT AGGCAAGAGT GCCTTGACGA	60
PACAGC	6.6

- (2) INFORMATION FOR SEQ ID NO: 26:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 66 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: other nucleic acid
 - (A) DESCRIPTION: /desc = "Generated by primer extension"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 26:	
GCTGTATCGT CAAGGCACTC TTGCCTACGC CATGGATCCT GCATGAAACT GGCCGTCGTT	60
TACAGC	66
(2) INFORMATION FOR SEQ ID NO: 27:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "synthetic oligonucleotide"</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 27:	
GGTAGTTGGA GCTGGTGGCG	20
(2) INFORMATION FOR SEQ ID NO: 28:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "synthetic oligonucleotide"</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 28:	
TCCAACTACC	10
(2) INFORMATION FOR SEQ ID NO: 29:	

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 47 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

<pre>(ii) MOLECULE TYPE: other nucleic acid</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 29:	
GCTGTATCGT CAAGGCACTC TTGCCTACGC CACCAGCTCC AACTACC	47
(2) INFORMATION FOR SEQ ID NO: 30:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
<pre>(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "synthetic oligonucleotide"</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 30:	
CCAGCTCCAA	10
(2) INFORMATION FOR SEQ ID NO: 31:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: other public and	

- (A) DESCRIPTION: /desc = "synthetic oligonucleotide"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 31:

TTGGAGCTGG TGGCGTAGGC

- (2) INFORMATION FOR SEQ ID NO: 32:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 42 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

- - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 32:

GCTGTATCGT CAAGGCACTC TTGCCTACGC CACCAGCTCC AA